

NEW BULLETIN INTERESTS OILMEN

Scientific Work Is of Unusual Benefit to That Industry.

Washington, D. C., August 19.—A knowledge of the conditions that govern the accumulation of petroleum in pools is of the greatest practical value to the oil men, and investigations have been carried on for a number of years by the geologists of the United States geological survey in various oil-producing districts. The results of some recent work of this kind in Pennsylvania, Ohio and West Virginia, by Messrs. W. T. Griswold and M. J. Munn, have just been published by the survey as Bulletin No. 318.

The investigation of Mr. Griswold and Mr. Munn involved the solution of two important questions: First, what are the physical laws under which oil accumulates in pools; and second, how many of the conditions of this accumulation can be determined prior to actual test by the drill. The area selected for study was that portion of the Appalachian oil field comprising the Steubenville Ohio-West Virginia and the Burgettstown and Claysville Pennsylvania, quadrangles, within which lie most of the white oil-producing sands of the Appalachian field. This area, about 680 square miles in extent, has been tested by numerous wells and includes large and important developed oil pools from the Berea, the Hundred-Foot, the Gordon, the Fourth and the Fifth sands. Records of the conditions discovered by the many test wells were collected, and a map of one of the principal oil-producing sands in each quadrangle was drawn to represent the sand as if all of the material above it had been removed and its upper surface exposed to view. From the facts thus assembled general laws applicable to the different oil accumulations have been deduced.

Oil Accumulations.
The chief factors in the accumulation of oil are the geologic structure of the oil-bearing rocks and the salt water contained in the different producing sands. These sands vary greatly in the extent of their saturation with salt water. The younger sands, or those nearer the surface, comprise much larger areas that are completely saturated, and the saturation decreases downward with each succeeding sand. The fifth, the deepest sand from which oil has been produced within the region, contains salt water only in very small areas in the very lowest spots.

The oil has accumulated in different places with reference to the high and low points of the rocks, the place of accumulation depending upon the quantity of salt water contained in the sand rocks. In those sandstones that are completely saturated the oil is found on high places; where the oil sands contain water only up to a certain height around the side of a structural basin—as if it were a bowl half filled with water—the oil lies at the top of the water and extends around the basin in lines at the same elevation, following the strike of the structure; where there is little or no water in the sands the oil accumulates in the syncline or lowest part of the oil sand.

Mapping Underground Sand.
The possibility of accurately mapping an underground sand without the use of many well records was determined only for the area investigated, for the accuracy of the results of such work depends on the degree of parallelism that exists between the different geologic strata outcropping at the surface—that is, on the regularity or irregularity of the relations between the strata outcropping at the surface and the oil sands. Before wells are drilled it is, of course, impossible to map a sand, or even to say that it exists; but if in any area a test well drilled not over 3 to 5 miles apart have penetrated the same sand, the high and low spots of the sand and the slopes between these spots may be mapped with an error not greater than 10 or 20 feet, if the outcropping strata accurately indicate the structure. The bulletin just published explains the methods of work and includes detailed maps of the quadrangles investigated. Copies of it may be obtained free of charge by applying to the Director of the United States Geological Survey at Washington, D. C.

HAIR DRESSER AND CHIROPONDIST.

Mrs. Bambini, at her parlors opposite the Alvarado and next door to Sturges' cafe, is prepared to give thorough scalp treatment, do hair dressing, treat corns, bunions and ingrowing nails. She gives massage treatment and manicuring. Mrs. Bambini's own preparation of complexion cream builds up the skin and improves the complexion, and is guaranteed not to be injurious. She also prepares a hair tonic that cures and prevents dandruff and hair falling out; restores life to dead hair; removes moles, warts and superfluous hair. Massage treatment by vibrator machines. For any blemish of the face, call and consult Mrs. Bambini.

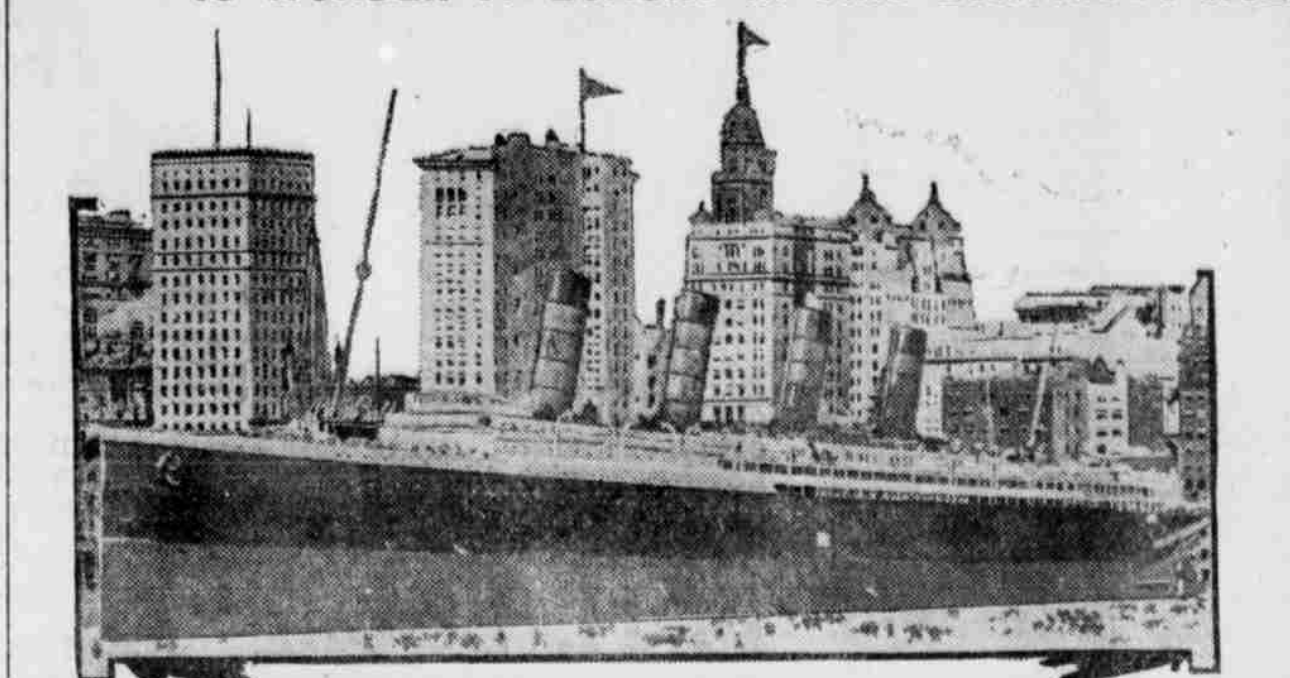
CARD SYSTEM HAS BEEN ABOLISHED

Telluride, Colo., August 19.—The Smuggler-Union Mining company, Gen. Bulkley Wells of Denver, general superintendent, one of the largest mining corporations in this district, has abolished the card system that has been in vogue at the mine and mills of that company since the big and bloody strike of 1903.

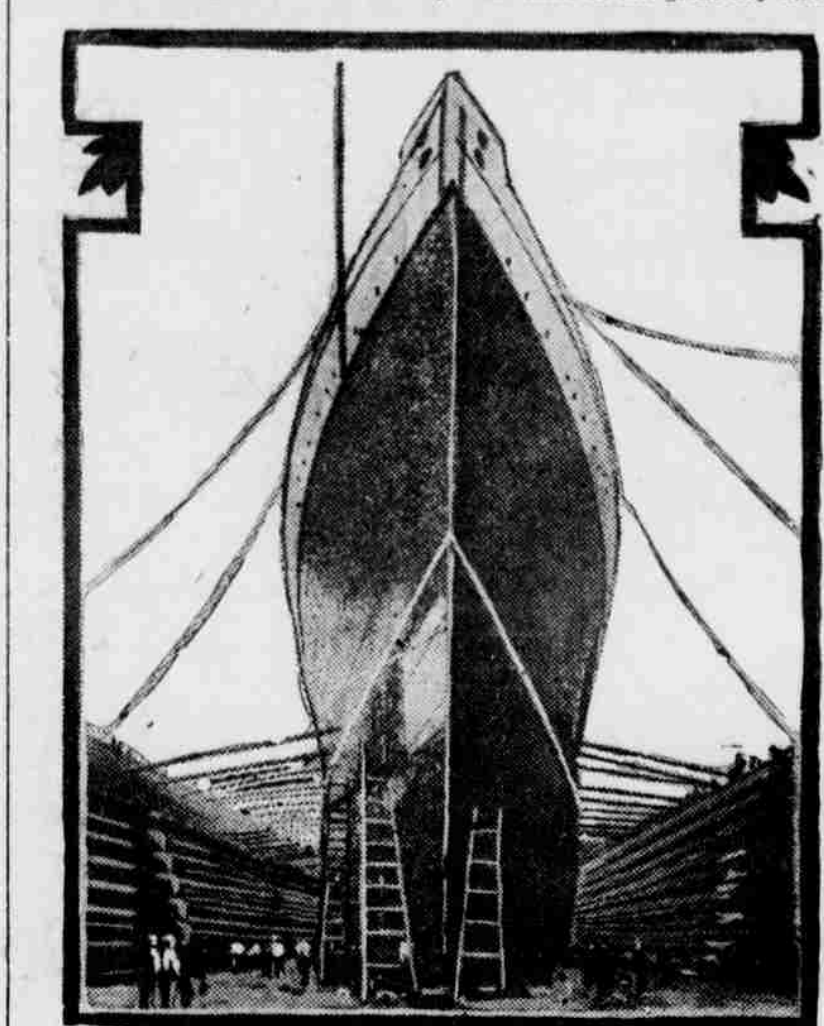
The announcement that the Smuggler-Union had decided to abolish the card system was made by General Wells himself, and it came like a thunder clap from a clear sky. General Wells has been one of the most bitter foes of union mine labor and of the Western Federation of Miners in the west.

Kodol for Indigestion and Dyspepsia is a preparation of vegetable acids and contains the same juices found in a healthy stomach. It digests what you eat. Sold by J. H. O'Reilly & Co.

LUSITANIA, FIVE DAY ATLANTIC LINER, IS WONDER OF LUXURY IN THIS LUXURIOUS AGE



How the Lusitania would look if she could be picked up and laid down in Broadway, New York City. Being 790 feet long, she would line up with three of the great city blocks.



This photograph of the bow of the Lusitania, taken a moment before she was launched, gives an idea of her enormous proportions. Her beam, or width, is 88 feet.

BIG PURCHASES CONVENTION OF RANGE FIREMEN IS CALLED

Feeders Anxious to Get Anything in Line of Sheep. Annual Session Will be Held in This City During Fair.

Somewhere down east is taking on an unusual strut by trying to outdo Herod in the purchase of the range stock now going to market. Kak Merodach would have laughed at this performance but it may be that the wise men of the east have some knowledge of what they are doing although it does not look much like it. At Chicago the other day Idaho grass yearlings brought \$7.85 with dry ewes at \$5.50. This stock was raw off the short grass and had never seen the color of grain. It might be amusing to imagine what the stuff will bring when it wags back from the feed lots next spring.

Mutton Unknown in Japan.
It is quite singular that so far no large scheme of cold storage has been adopted in Japan and this would appear to be a profitable opening for American capital. Mutton is hardly known throughout the whole of Nippon. There are no native sheep, the pasturage being altogether unfit for them. Any sheep, which are purchased mainly for the foreign residents, are brought from China and killed in Japan. Not one Japanese in a hundred thousand has probably ever tasted mutton and among the foreign population this meat is so prized that to send a shoulder of mutton to a friend is considered quite a delicate attention. Sheep are not particularly adapted to the tropics and when bred under such conditions their wool eventually becomes kempy and finally turns to hair and this may be the reason why all the sheep in that country are goats.

Buying Feeders.
The talk about Colorado feeders refusing to fill up their feedlots at prices as high as those of last year might be well to add that they are actively engaged in contracting thin stock for fall delivery at figures fully as high. Furthermore they are taking everything that wears wool but it might be well to add that the stuff purchased thus far is of extraordinary good quality with the run of shrimps to be picked up later. Colorado has a big hay crop this year and feeders have evidently come to the conclusion that the best method of marketing it will be to convert it into live mutton as heretofore. The wisest buyers have been a little fussy in slipping out into the range country without sending a brass band ahead.

Liverpool, August 19.—The grant turbine Lusitania of the Cunard line, has just completed her trials and early in September she will start on her first voyage to New York to win back for Great Britain the blue ribbon of the Atlantic. She will be the first five-day boat.

Twenty-five and a half knots an hour was her trial record under full steam, and in weather not entirely suited to racing. With ideal wind and water, her quadruple screws will be able to push her along at a 26-knot pace. This doesn't mean so much until the Lusitania's huge bulk has been realized. She is as long as the Auditorium hotel and Annex at Chicago, and she would line up with three blocks in the business section of New York.

In her engines is the power of 68,000 horses. There are three promenade decks, the top one covering 1 1/2 acres, and 3 1/4 times around is a mile. There are 23 miles of tramping and beams and 5,000,000 rivets in the ship.

But even this gives no adequate idea of the size of the vessel. It is in the huge drawing room or the dining room that the proportions of the Lusitania are adequately realized. There are no long tables in the dining room. The whole space is filled with small tables that can accommodate 220 persons. That number of diners would crowd the largest restaurant in America.

Her Drawing Room.
A ball room the size of the Lusitania drawing room would be a feature of a king's palace.

The cabins on the boat are almost as large as hotel bed rooms. The rooms have telephones in them, and when the vessel arrives in New York there will be connection with all the land wires.

Brass bedsteads, silk tapestry lined walls and silk curtains are common. Two regal suites are the Lusitania's pride. They could not be bettered by a spendthrift millionaire. Each contains two bedrooms, a dining room, a drawing room and bath. The dining room is paneled with fine Italian walnut, enriched with carved ornaments and moldings of burnished gold. The buffet writing table, dining table and revolving chairs are also in Italian walnut and gold. The chimney piece is a particularly fine specimen of Flouet-de-Pecher marble, with marble hearth to match, and a log fire. The panel ceiling in white and gold, the green silk curtains, portiers, and carpet, complete a very artistic portrait of the suite. A sliding glass screen separates this room from the drawing room, which is paneled in white with carved gilt moldings, enriched with beautiful painted panels of flowers.

On Deck.
On the promenade deck there is a series of en suite rooms, furnished by different firms who were given carte blanche, each decorator trying to outlive the others. The result is a set of rooms of such magnificence that probably no hotel in the world could afford to support.

Electric lights are scattered everywhere, and there are 50 clocks, all electrically regulated from the bridge chronometer.

The second class accommodation is better than the first class on the Cunard liners Etruria and Umbria. There is the same generous space as in first class, and three large public rooms, larger than on a private yacht of a millionaire.

The steerage passengers have a deck running almost the length of the ship for themselves, and of the 502 third class rooms, 40 are two-berth and 237 four-berth, the others accommodating six and eight people each.

ACKNOWLEDGE IT.
Albuquerque Has to Bow to the Inevitable—Scores of Citizens Prove It.

After reading the public statement of this representative citizen of Albuquerque given below, you must come to this conclusion: A remedy which cured years ago, which has kept the kidneys in good health since, can be relied upon to perform the same work in other cases. Read this:

Mrs. J. Hall, of 322 West Hunting avenue, Albuquerque, New Mexico, says: "My daughter used Doan's Kidney Pills with very good results. She suffered for over a year with severe pains across her loins and kidneys, so severe at times that she was unable to be around. I heard of Doan's Kidney Pills and induced her to try them. She felt great relief from the first and continued their use until cured. I gave a statement to this effect some four years ago, and would say today, January 31st, 1907, that we were not only given reason to appreciate Doan's Kidney Pills at that time, but both my daughter and myself will vouch for their value as strongly as ever, and can heartily recommend them to other sufferers."

For sale by all dealers. Price 50 cents. Doan's Kidney Pills, Co., Buffalo, N. Y., sole agents for the United States. Remember the name—Doan's—and take no other. No. 29

Kennedy's Laxative Cough Syrup acts gently upon the bowels and clears the whole system of coughs and colds. It promptly relieves inflammation of the throat and allays irritation. Sold by J. H. O'Reilly & Co.

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The Board of Directors have authorized the sale of a block of 10,000 shares AND NO MORE, at 25 cents per share on above terms for the purpose of sinking the main shaft, which is now in good ore, 100 feet deeper. All we want is enough money to meet the pay roll for several months until we can begin shipping ore to the Needles Smelter, less than 100 miles by rail.

The claim adjoining us on the south was last week sold for \$150,000 and we are in receipt of several letters from responsible parties inquiring what we would take for the property as a whole—BUT IT IS NOT FOR SALE—we prefer to sell only the 10,000 shares and to Albuquerque investors as we believe it a sure winner. Address at once,

D. K. B. SELLERS, Sec'y.,

Albuquerque, New Mexico.

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